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RAW SEQUENCE LISTING

DATE: 02/19/2003

PATENT APPLICATION: US/09/786,702

TIME: 08:18:09

Input Set : N:\efs\09786702\ASZD-P01-385SequenceListing.txt

Output Set: N:\CRF4\02192003\I786702.raw

4 <110> APPLICANT: Luke et al.
 6 <120> TITLE OF INVENTION: PIPERIZINE-4-PHENYL DERIVATIVES AS INHIBITORS OF THE
 INTERACTION

7 BETWEEN MDM2 AND P 53

9 <130> FILE REFERENCE: ASZD-P01-385

11 <140> CURRENT APPLICATION NUMBER: 09/786702

12 <141> CURRENT FILING DATE: 2001-03-07

14 <150> PRIOR APPLICATION NUMBER: 9819860.9

15 <151> PRIOR FILING DATE: 1998-09-12

17 <160> NUMBER OF SEQ ID NOS: 3

19 <170> SOFTWARE: PatentIn version 3.1

21 <210> SEQ ID NO: 1

22 <211> LENGTH: 393

23 <212> TYPE: PRT

24 <213> ORGANISM: Homo sapiens

26 <400> SEQUENCE: 1

28 Met Glu Glu Pro Gln Ser Asp Pro Ser Val Glu Pro Pro Leu Ser Gln

29 1 5 10 15

32 Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu

33 20 25 30

36 Ser Pro Leu Pro Ser Gln Ala Met Asp Asp Leu Met Leu Ser Pro Asp

37 35 40 45

40 Asp Ile Glu Gln Trp Phe Thr Glu Asp Pro Gly Pro Asp Glu Ala Pro

41 50 55 60

44 Arg Met Pro Glu Ala Ala Pro Arg Val Ala Pro Ala Pro Ala Ala Pro

45 65 70 75 80

48 Thr Pro Ala Ala Pro Ala Pro Ala Pro Ser Trp Pro Leu Ser Ser Ser

49 85 90 95

52 Val Pro Ser Gln Lys Thr Tyr Gln Gly Ser Tyr Gly Phe Arg Leu Gly

53 100 105 110

56 Phe Leu His Ser Gly Thr Ala Lys Ser Val Thr Cys Thr Tyr Ser Pro

57 115 120 125

60 Ala Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val Gln

61 130 135 140

64 Leu Trp Val Asp Ser Thr Pro Pro Pro Gly Thr Arg Val Arg Ala Met

65 145 150 155 160

68 Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg Arg Cys

69 165 170 175

72 Pro His His Glu Arg Cys Ser Asp Ser Asp Gly Leu Ala Pro Pro Gln

73 180 185 190

76 His Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp

77 195 200 205

80 Arg Asn Thr Phe Arg His Ser Val Val Val Pro Tyr Glu Pro Pro Glu

81 210 215 220

ENTERED

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84 Val Gly Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr Met Cys Asn Ser
85 225                230                235                240
88 Ser Cys Met Gly Gly Met Asn Arg Arg Pro Ile Leu Thr Ile Ile Thr
89                245                250                255
92 Leu Glu Asp Ser Ser Gly Asn Leu Leu Gly Arg Asn Ser Phe Glu Val
93                260                265                270
96 Arg Val Cys Ala Cys Pro Gly Arg Asp Arg Arg Thr Glu Lys Glu Asn
97                275                280                285
100 Leu Arg Lys Lys Gly Glu Pro His His Glu Leu Pro Pro Gly Ser Thr
101                290                295                300
104 Lys Arg Ala Leu Pro Asn Asn Thr Ser Ser Ser Pro Gln Pro Lys Lys
105 305                310                315                320
108 Lys Pro Leu Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu
109                325                330                335
112 Arg Phe Glu Met Phe Arg Glu Leu Asn Glu Ala Leu Glu Leu Lys Asp
113                340                345                350
116 Ala Gln Ala Gly Lys Glu Pro Gly Gly Ser Arg Ala His Ser Ser His
117                355                360                365
120 Leu Lys Ser Lys Lys Gly Gln Ser Thr Ser Arg His Lys Lys Leu Met
121                370                375                380
124 Phe Lys Thr Glu Gly Pro Asp Ser Asp
125 385                390
127 <210> SEQ ID NO: 2
128 <211> LENGTH: 243
129 <212> TYPE: PRT
130 <213> ORGANISM: Homo sapiens
132 <400> SEQUENCE: 2
134 Met Cys Asn Thr Asn Met Ser Val Pro Thr Asp Gly Ala Val Thr Thr
135 1                5                10                15
138 Ser Gln Ile Pro Ala Ser Glu Gln Glu Thr Leu Val Arg Pro Lys Pro
139                20                25                30
142 Leu Leu Leu Lys Leu Leu Lys Ser Val Gly Ala Gln Lys Asp Thr Tyr
143                35                40                45
146 Thr Met Lys Glu Asp Tyr Trp Lys Cys Thr Ser Cys Asn Glu Met Asn
147                50                55                60
150 Pro Pro Leu Pro Ser His Cys Asn Arg Cys Trp Ala Leu Arg Glu Asn
151 65                70                75                80
154 Trp Leu Pro Glu Asp Lys Gly Lys Asp Lys Gly Glu Ile Ser Glu Lys
155                85                90                95
158 Ala Lys Leu Glu Asn Ser Thr Gln Ala Glu Glu Gly Phe Asp Val Pro
159                100               105               110
162 Asp Cys Lys Lys Thr Ile Val Asn Asp Ser Arg Glu Ser Cys Val Glu
163                115               120               125
166 Glu Asn Asp Asp Lys Ile Thr Gln Ala Ser Gln Ser Gln Glu Ser Glu
167                130               135               140
170 Asp Tyr Ser Gln Pro Ser Thr Ser Ser Ser Ile Ile Tyr Ser Ser Gln
171 145               150               155               160
174 Glu Asp Val Lys Glu Phe Glu Arg Glu Glu Thr Gln Asp Lys Glu Glu
175                165                170                175

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```

178 Ser Val Glu Ser Ser Leu Pro Leu Asn Ala Ile Glu Pro Cys Val Ile
179          180          185          190
182 Cys Gln Gly Arg Pro Lys Asn Gly Cys Ile Val His Gly Lys Thr Gly
183          195          200          205
186 His Leu Met Ala Cys Phe Thr Cys Ala Lys Lys Leu Lys Lys Arg Asn
187          210          215          220
190 Lys Pro Cys Pro Val Cys Arg Gln Pro Ile Gln Met Ile Val Leu Thr
191 225          230          235          240
194 Tyr Phe Pro
197 <210> SEQ ID NO: 3
198 <211> LENGTH: 21
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: expression vector
205 <400> SEQUENCE: 3
206 ctggttccgc gtggatccat g

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VERIFICATION SUMMARY

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